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1. Document ID: US 20060049533 A1

AB: It is an object of the present invention to provide a highly reliable optical sensor and a production process of the same, the optical sensor being excellent in the characteristic of blocking infrared radiation and capable of being manufactured at a low cost without an increase in the number of steps carried out in the assembly of electronic apparatus. The present invention includes: a substrate 1 having an electrode 3; a photodetector 2 electrically connected to the electrode 3; and a light-transmissive resin encapsulating portion 11 for encapsulating the photodetector 2 on the substrate 1, the optical sensor further including an infrared-blocking layer either inside the light-transmissive resin encapsulating portion 11 or on an outer surface of the light-transmissive resin encapsulating portion 11 for blocking infrared radiation from the outside from reaching the photodetector.

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2. Document ID: US 6207266 B1

AB: Provided is bonding film in the form of web which has a high electromagnetic shielding effect for electromagnetic radiation from the front surface of a display device, and other favorable properties such as an infrared blocking property, a transparency, a invisibility and a favorable bonding property. The bonding film typically includes base film, a geometrically patterned electroconductive layer placed over the base film so as to achieve an aperture ratio of 80% of more, and a bonding layer for attaching the assembly to an object. The film may be applied to the surface of a transparent sheet member for the convenience of handling, and such an assembly has a symmetric structure so that the warping of the assembly may be minimized. The bonding film may be interposed between a pair transparent base sheets, or the bonding film may be applied over two sides a transparent base sheet. The assembly may further include an infrared blocking layer and an anti-glare layer.

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3. Document ID: US 6197408 B1

AB: Provided is electromagnetic shielding bonding film which has an

electromagnetic shielding capability, infrared blocking capability, transparency, invisibility and favorable bonding property, and an electromagnetic shielding assembly and a display device using such bonding film. The electromagnetic shielding bonding film is characterized by plastic film carrying a bonding agent layer which flows under specific conditions, and an electroconductive metallic material layer which is geometrically patterned by micro-lithography so as to have an aperture ratio of 50% or more. This electromagnetic shielding bonding film is combined with a plastic plate to obtain an electromagnetic shielding assembly. Also is provided a display device such as CRT, PDP, LCD, or EL which has the electromagnetic shielding bonding film or the electromagnetic shielding assembly on the display screen.

Full Title Citation Front Review Classification Date Reference Claims KMC Draw Desc

4. Document ID: US 6086979 A

AB: An electromagnetic shielding bonding film has a substantially transparent base film and an electroconductive metallic material layer geometrically patterned on the base film to have an aperture ratio of 50% or more. A bonding agent layer is placed at least over a part of the plastic base film not covered by the electroconductive metallic material layer and has a predetermined selectively given fluidity.

Full Title Citation Front Review Classification Date Reference Claims KMC Draw Desc

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